## **EUROPEAN PATENT OFFICE**

## Patent Abstracts of Japan

PUBLICATION NUMBER

11304663

PUBLICATION DATE

05-11-99

APPLICATION DATE

24-04-98

APPLICATION NUMBER

10115622

APPLICANT: HINO MOTORS LTD;

INVENTOR:

MIYAZAKI KIYOAKI;

INT.CL.

G01M 17/007 B60T 8/24 B60T 8/58

B62D 6/00 G01B 21/22 G01C 5/00 // B62D101:00 B62D103:00 B62D105:00

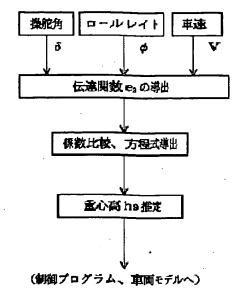
B62D109:00

TITLE

ESTIMATION OPERATION DEVICE OF

CENTER-OF-GRAVITY HEIGHT OF

**VEHICLE** 



ABSTRACT :

PROBLEM TO BE SOLVED: To rationally estimate the behavior of a vehicle such as a skid and a wheel lift by real-time operation, and to estimate the height of center of gravity.

SOLUTION: The height of center of gravity is obtained according to a steering angle when a vehicle turns left and right or changes its lane and a roll angle being generated at that time. The transfer function of roll for the steering angle of a dynamics model with degree of freedom including the roll is equal to that of the roll for the steering angle being obtained by the AR method (auto-regressive method) from data being sampled from a loaded vehicle, thus deriving the height of center of gravity by comparing coefficients.

COPYRIGHT: (C)1999,JPO